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Editors

Sustainable and Resilient Critical Infrastructure Systems

Simulation,
Modeling,
and Intelligent Engineering



Springer

Sustainable And Resilient Critical Infrastructure Systems Simulation Modeling And Intelligent Engineering

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Sustainable and Resilient Critical Infrastructure Systems Kasthurirangan Gopalakrishnan, Srinivas

Peeta, 2010-04-13 Sustainable and resilient critical infrastructure systems is an emerging paradigm in an evolving era of depleting assets in the midst of natural and man made threats to provide a sustainable and high quality of life with optimized resources from social economic societal and environmental considerations The increasing complexity and interconnectedness of civil and other interdependent infrastructure systems electric power energy cyber infrastructures etc require inter and multidisciplinary expertise required to engineer monitor and sustain these distributed large scale complex adaptive infrastructure systems This edited book is motivated by recent advances in simulation modeling sensing communications information and intelligent and sustainable technologies that have resulted in the development of sophisticated methodologies and instruments to design characterize optimize and evaluate critical infrastructure systems their resilience and their condition and the factors that cause their deterioration Specific topics discussed in this book include but are not limited to optimal infrastructure investment allocation for sustainability framework for manifestation of tacit critical infrastructure knowledge interdependencies between energy and transportation systems for national long term planning intelligent transportation infrastructure technologies emergent research issues in infrastructure interdependence research framework for assessing the resilience of infrastructure and economic systems maintenance optimization for heterogeneous infrastructure systems optimal emergency infrastructure inspection scheduling and sustainable rehabilitation of deteriorated transportation infrastructure systems

Cyber Resilience of Systems and Networks Alexander Kott, Igor

Linkov, 2018-05-30 This book introduces fundamental concepts of cyber resilience drawing expertise from academia industry and government Resilience is defined as the ability to recover from or easily adjust to shocks and stresses Unlike the concept of security which is often and incorrectly conflated with resilience resilience refers to the system s ability to recover or regenerate its performance after an unexpected impact produces a degradation in its performance A clear understanding of distinction between security risk and resilience is important for developing appropriate management of cyber threats The book presents insightful discussion of the most current technical issues in cyber resilience along with relevant methods and procedures Practical aspects of current cyber resilience practices and techniques are described as they are now and as they are likely to remain in the near term The bulk of the material is presented in the book in a way that is easily accessible to non specialists Logical consistent and continuous discourse covering all key topics relevant to the field will be of use as teaching material as well as source of emerging scholarship in the field A typical chapter provides introductory tutorial like material detailed examples in depth elaboration of a selected technical approach and a concise summary of key ideas

Climate Change and Infrastructure, Urban Systems, and Vulnerabilities Thomas J. Wilbanks, Steven Fernandez, 2014-03-18 This report is published as one of a series of technical inputs to the Third National Climate Assessment NCA report About this series

page vii **Digital Transformation in the Construction Industry** Ehsan Noroozinejad Farsangi, Mohammad Noori, T.Y. Yang, Vasilis Sarhosis, Seyedali Mirjalili, Mirosław J. Skibniewski, 2025-05-16 Digital Transformation in the Construction Industry Sustainability Resilience and Data Centric Engineering delivers timely and much sought after guidance related to novel digital first practices and the latest technological tools the gradual adoption of which is being embraced to significantly reshape the way buildings and other infrastructure assets are designed constructed operated and maintained Methodological and practice informed investigations by scholars and researchers from across the globe providing a wealth of knowledge relevant for and applicable to different geographical and economic contexts are coherently collated in this edited volume This systematic analysis of cutting edge developments such as Building Information Modeling Internet of Things Artificial Intelligence Machine Learning Big Data Augmented Reality Virtual Reality 3D Printing and Structural Health Monitoring is accompanied by discussions on challenges and opportunities that digitalization engenders Additionally real word case studies enrich the coverage highlighting how these innovative solutions can contribute to establishing working efficiencies that can at the same time aid the impactful realization of globally recognized sustainability goals Readers in both academic and professional settings are therefore not only equipped with a comprehensive overview of the state of the art but also offered an insightful reference resource for future works in the area Covers emerging technologies comprehensively Emphasizes the use of digital tools to support achievements for worldwide net zero targets Focuses on lean and agile construction practices to improve project efficiency and reduce waste **Soft Computing in Green and Renewable Energy Systems** Kasthurirangan Gopalakrishnan, Siddhartha Kumar Khaitan, Soteris Kalogirou, 2011-08-20 Soft Computing in Green and Renewable Energy Systems provides a practical introduction to the application of soft computing techniques and hybrid intelligent systems for designing modeling characterizing optimizing forecasting and performance prediction of green and renewable energy systems Research is proceeding at jet speed on renewable energy energy derived from natural resources such as sunlight wind tides rain geothermal heat biomass hydrogen etc as policy makers researchers economists and world agencies have joined forces in finding alternative sustainable energy solutions to current critical environmental economic and social issues The innovative models environmentally benign processes data analytics etc employed in renewable energy systems are computationally intensive non linear and complex as well as involve a high degree of uncertainty Soft computing technologies such as fuzzy sets and systems neural science and systems evolutionary algorithms and genetic programming and machine learning are ideal in handling the noise imprecision and uncertainty in the data and yet achieve robust low cost solutions As a result intelligent and soft computing paradigms are finding increasing applications in the study of renewable energy systems Researchers practitioners undergraduate and graduate students engaged in the study of renewable energy systems will find this book very useful **OECD Health Policy Studies Ready for the Next Crisis? Investing in Health System Resilience** OECD, 2023-02-23 The COVID 19 pandemic had massive consequences for societies and health systems

across the OECD and beyond Health systems were not resilient enough Resilient health systems plan and are ready for shocks such as pandemics economic crises or the effects of climate change Resilience and Risk Igor Linkov, José Manuel Palma-Oliveira, 2017-08-01 This volume addresses the challenges associated with methodology and application of risk and resilience science and practice to address emerging threats in environmental cyber infrastructure and other domains The book utilizes the collective expertise of scholars and experts in industry government and academia in the new and emerging field of resilience in order to provide a more comprehensive and universal understanding of how resilience methodology can be applied in various disciplines and applications This book advocates for a systems driven view of resilience in applications ranging from cyber security to ecology to social action and addresses resilience based management in infrastructure cyber social domains and methodology and tools Risk and Resilience has been written to open up a transparent dialog on resilience management for scientists and practitioners in all relevant academic disciplines and can be used as supplement in teaching risk assessment and management courses Management and Engineering of Critical Infrastructures Bedir Tekinerdogan, Mehmet Aksit, Cagatay Catal, William Hurst, Tarek AlSkaif, 2023-09-04 Management and Engineering of Critical Infrastructures focuses on two important aspects of CIS management and engineering The book provides an ontological foundation for the models and methods needed to design a set of systems networks and assets that are essential for a society s functioning and for ensuring the security safety and economy of a nation Various examples in agriculture the water supply public health transportation security services electricity generation telecommunication and financial services can be used to substantiate dangers Disruptions of CIS can have serious cascading consequences that would stop society from functioning properly and result in loss of life Malicious software a k a malware for example can disrupt the distribution of electricity across a region which in turn can lead to the forced shutdown of communication health and financial sectors Subsequently proper engineering and management are important to anticipate possible risks and threats and provide resilient CIS Although the problem of CIS has been broadly acknowledged and discussed to date no unifying theory nor systematic design methods techniques and tools exist for such CIS Presents key problems solution approaches and tools developed or necessary for assessing and managing critical infrastructures Investigates basic theory and foundations of current research topics related challenges and future research directions for CIS Offers an interdisciplinary approach considering management engineering and specific challenges dynamism and scalability surrounding the digitization of CIS services Sustainable Bioenergy and Bioproducts Kasthurirangan Gopalakrishnan, J. (Hans) van Leeuwen, Robert C. Brown, 2011-11-06 Sustainable Bioenergy and Bioproducts considers the recent technological innovations and emerging concepts in biobased energy production and coproducts utilization Each chapter in this book has been carefully selected and contributed by experts in the field to provide a good understanding of the various challenges and opportunities associated with sustainable production of biofuel Sustainable Bioenergy and Bioproducts covers a broad and detailed range of topics including production capacity of

hydrocarbons in the plant kingdom algae and microbes biomass pretreatment for biofuel production microbial fuel cells sustainable use of biofuel co products bioeconomy and transportation infrastructure impacts and assessment of environmental risks and the life cycle of biofuels Researchers practitioners undergraduate and graduate students engaged in the study of biorenewables and members of the well informed public will find Sustainable Bioenergy and Bioproducts to be a useful and comprehensive research tool describing the state of the art and recent developments in this field Emergencies and Public Health Crisis Management- Current Perspectives on Risks and Multiagency Collaboration Amir Khorram-Manesh, Frederick M Burkle, 2020-12-11 The successful management of emergencies and public health crises depends on adequate measures being implemented at all levels of the emergency chain of action from policy makers to the general population It starts with appropriate risk assessment prevention and mitigation and continues to prehospital and hospital care recovery and evaluation All levels of action require well thought out emergency management plans and routines based on established command and control identified safety issues functional communication well documented triage and treatment policies and available logistics All these characteristics are capabilities that should be developed and trained particularly when diverse agencies are involved In addition to institutional responses a robust community based disaster response system can effectively mitigate and respond to all emergencies A well balanced response is largely dependent on local resources and regional responding agencies that all too often train and operate within silos with an absence of interagency cooperation The importance of this book issue is its commitment to all parts of emergency and public health crisis management from a multiagency perspective It aims to discuss lessons learned and emerging risks introduce new ideas about flexible surge capacity and show the way it can practice multiagency collaboration

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